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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,480	02/08/2007	Marco Lopez	034166.024	1237
	7590 07/21/200 BRELL & RUSSELL	9	EXAMINER	
SUITE 3100, P	ROMENADE II		NGUYEN, CAM N	
ATLANTA, GA	REE STREET, N.E. A 30309-3592		ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			07/21/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/595,480	LOPEZ ET AL.
Office Action Summary	Examiner	Art Unit
	Cam N. Nguyen	1793
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLEWHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statule Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tird d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>04/0</u> This action is FINAL . 2b) ☑ This action is FINAL . 100 ☐ This action is application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 9-30 is/are pending in the application 4a) Of the above claim(s) 21-30 is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 9-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction.	iwn from consideration. for election requirement. her. herepted or b) □ objected to by the legacine decide of the legacine of the legacine.	e 37 CFR 1.85(a).
11)☐ The oath or declaration is objected to by the E	Examiner. Note the attached Office	Action or form PTO-152.
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority documer application from the International Burea * See the attached detailed Office action for a list 	nts have been received. nts have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 04/21/09.05/16/06.	4) Interview Summary Paper No(s)/Mail D: 5) Notice of Informal F 6) Other:	ate

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DETAILED ACTION

Response to Election/Restrictions

1. Applicant's election <u>without traverse</u> of Group I, claims 9-20, in the reply filed on <u>04/03/09</u> is acknowledged.

2. Claims 21-30 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention(s), there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on <u>04/03/09</u>.

Specification

3. The examiner has not checked the specification to the extent necessary to determine the presence of **all** possible minor errors (grammatical, typographical, and idiomatic). Cooperation of the applicant(s) is requested in correcting any errors of which applicant(s) may become aware of in the specification, in the claims and in any further amendment(s) that applicant(s) may file.

Applicant(s) is also requested to complete the status of the copending applications referred to in the specification by their Attorney Docket Number or Application Serial Number, if any.

The status of the parent application(s) and/or any other application(s) cross-referenced to this application, **if any**, should be updated in a timely manner.

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Claim Objections

4. Claims 17-20 are objected to because of the following informalities:

A. In claim 17, line 2, "and/or mixtures thereof" should be changed to recite --, or mixture

thereof--.

B. In claim 18, line 2, "and/or mixtures thereof" should be changed to recite --, or mixture

thereof--.

C. In claim 19, line 2, "and/or mixtures thereof" should be changed to recite --, or mixture

thereof--.

D. In claim 20, line 2, "and/or mixtures thereof" should be changed to recite --, or mixture

thereof--.

Appropriate correction is required.

Claim Rejections - 35 USC § 112 (Second Paragraph)

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 11-12 & 19-20 are rejected under 35 U.S.C. 112, second paragraph, as being

indefinite for failing to particularly point out and distinctly claim the subject matter which

applicant regards as the invention.

Regarding claims 11 & 12, , the proper Markush terminology is --the inorganic oxide is

selected from the group consisting of titaniatantalum pentoxide (Ta₂O₅) and/or and

combinations thereof--.

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Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 9-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Beer '498*, (US Pat. 3,621,498).

Beer '498 discloses an electrode for use in an electrolytic reaction comprising an electrically conductive base selected from the group consisting of aluminum, tantalum, titanium, zirconium, bismuth, tungsten, niobium, and alloys thereof, at least a portion of the surface of said base having a coating of a mixed crystal material consisting essentially of at least one oxide of a film-forming metal and at least one oxide of a platinum group metal (see col. 13, claim 1). The oxide of a film-forming metal is an oxide of a metal selected from the group consisting of aluminum, tantalum, titanium, zirconium, bismuth, tungsten and niobium (see col. 13, claim 2). The oxide of a platinum group metal is an oxide of a metal selected from the group consisting of palladium, platinum, rhodium, iridium, ruthenium and osmium (see col. 13, claim 3). See also other claims in the Claim Section and entire reference for further details.

With respect to the claimed BET surface area and water solubility of the inorganic oxide in claims 9 & 13-16, it is inherent and expected that the disclosed electrically conductive base material would have the same surface area and water solubility properties because they are the same materials as recited in the dependent claims 11 & 12.

With respect to the claimed metal concentration of the inorganic oxide and atomic ratio of the Ir/Ru in claims 9 & 10, it would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to have predetermined an optimum amount of such electrically conductive base material and the platinum group metal oxides in the disclosed electrode catalyst in order to achieve an effective material since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. See <u>In re</u>

<u>Boesch</u>, 617 F.2d 272, 205 USPQ 215 (CCPA 1980). See also <u>In re Aller</u>, 105 USPQ 233.

Citations

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. All references are cited for related art. See PTO-892 Form prepared.

Conclusion

8. Claims 9-30 are pending. Claims 9-20 are rejected. Claims 21-30 are withdrawn due to nonelected (distinct) invention(s). No claims are allowed.

Contacts

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Primary Examiner CAM N. NGUYEN, whose telephone number is 571-272-1357. The examiner can normally be reached on M-F, 9:00 AM - 6:30 PM, at alternative work site.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone number for the

organization where this application or proceeding is assigned is 571-272-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Cam N. Nguyen/

Primary Examiner

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/C. N. N./

July 19, 2009